



PATENT
U.S. Application No.: 10/614,863
Attorney Docket No. 29284/594

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

APPLICANT : Yasuo INOUE
SERIAL NO. : 10/614,863
FILED : 9 July 2003
FOR : EXTERNAL STORAGE SUBSYSTEM
GROUP: 2182
EXAMINER: Alan S. CHEN

COMMISSIONER FOR PATENTS
P. O. Box 1450
Alexandria, Virginia 22313-1450

**REQUEST FOR CONSIDERATION OF
PREVIOUSLY DISCLOSED INFORMATION**

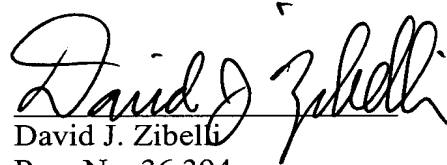
SIR:

On July 9, 2003 and April 6, 2005, Applicant filed Information Disclosure Statements. Applicant has not received any initialed 1449s for this application. A copy of the IDSs, 1449s and date-stamped postcards are attached. All of the documents listed on the July 9, 2003 IDS were of record in parent application 09/819,636, from which this application claims priority. Accordingly, no copies of these references need be submitted, and it is requested that these references be considered by the Examiner.

It is requested that the Examiner return to Applicant initialed copies of the attached PTO 1449 forms so that the references will be listed on the face of the patent.

Should there be any questions concerning this matter, the Examiner is invited to contact Applicant's undersigned attorney.

Respectfully submitted,


David J. Zibelli
Reg. No. 36,394

Dated: June 23, 2005

KENYON & KENYON
1500 K Street, NW
Washington, D.C. 20005
Tel: (202) 220-4210
Fax: (202) 220-4201

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Inventors : Yasuo INOUE
Serial No. : (Con. of 09/819,636)
Filed : 9 July 2003
For : EXTERNAL STORAGE SUBSYSTEM
Group Art Unit : 2182
Examiner :

COMMISSIONER FOR PATENTS
P.O. Box 1450
Alexandria, Virginia 22313-1450

INFORMATION DISCLOSURE STATEMENT
UNDER 37 C.F.R. § 1.97 & § 1.98

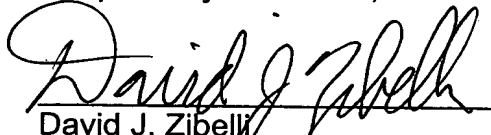
S I R:

In conformance with Applicants' duty of disclosure under 37 C.F.R. § 1.56 and § 1.97(b)(1), the references listed on the attached form PTO-1449 are hereby brought to the Examiner's attention.

Since all of the references were either submitted by applicants or cited by the Examiner in Application No. 09/819,636, no copies of the references are required.

It is respectfully requested that the information be expressly considered during the prosecution of this application, and that the references be made of record therein and appear in the "references cited" on any patent to issue therefrom.

Respectfully submitted,


David J. Zibelli
(Reg. No. 36,894)

Date: 9 July 2003

KENYON & KENYON
1500 K Street, N.W., Suite 700
Washington, D.C. 20005

(202) 220-4200 (Tel.)
(202) 220-4201 (fax)

FORM PTO-1449

INFORMATION DISCLOSURE

STATEMENT BY APPLICANT(S)

Atty Docket No.: 29284/594

Serial No. :

Applicants : Y. INOUE

Filed :

Group Art Unit :

Examiner :

U.S. PATENT DOCUMENTS

Examiner Initial	Patent Number	Patent Date	Name	Class/ Subclass	Filing Date
	4,021,784	05/1977	KIMLINGER	395/550	
	4,394,732	7/1983	SWENSON	395/440	
	4,467,414	08/21/84	AKAGI et al.	395/250	
	4,723,223	02/02/88	HANADA	395/846	
	4,792,898	12/20/88	MCCARTHY et al.	395/445	
	4,920,478	04/24/90	FARUYA et al.	395/463	
	4,996,641	02/26/91	TALGAM et al.	395/445	
	5,019,971	05/28/91	LEFSKI et al.	395/250	
	5,073,851	12/17/91	MASTERSON et al.	395/467	
	5,123,099	02/16/92	SHIBATA et al.	395/447	
	5,124,987	06/23/92	MILLIGAN et al.	395/182.05	
	5,133,060	07/21/92	WEBER et al.	395/440	
	5,142,627	8/1992	ELLIOT et al.	395/825	
	5,150,465	09/22/92	BUSH et al.	395/834	
	5,155,845	10/13/92	BEAL et al.	395/182.04	
	5,175,842	12/29/92	TOTANI	395/488	
	5,204,836	04/20/93	REED	371/10.2	
	5,210,843	5/1993	AYERS	395/455	
	5,228,135	07/13/93	IKUMI	395/458	
	5,253,351	10/12/93	YAMAMOTO et al.	395/445	
	5,257,359	10/26/93	BLASCO et al.	395/465	
	5,269,019	12/1993	PETERSON et al.	395/600	
	5,287,480	2/1994	WAHR	395/458	
	5,325,488	06/28/94	CARTEAU et al.	395/275	
	5,459,856	10/17/95	INOUE	395/440	
	5,519,831	5/1996	HOLZHAMMER	395/182.2	

OTHER DOCUMENTS

(Including Author, Title, Date, Pertinent Pages, Etc.)

Examiner

Initial

1. A Multiport Page-Memory Architecture and a Multiport Disk-Cache System, New Generation Computing 2 (1984) 241-260, Ohmsha, Ltd. and Springer-Verlag.

EXAMINER

DATE CONSIDERED

EXAMINER: Initial if citation considered, whether or not citation is in conformance with MPEP 609; draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

FORM PTO-1449
INFORMATION DISCLOSURE
STATEMENT BY APPLICANT(S)

Atty Docket No. : 29284/594
 Serial No. :
 Inventors : Yasuo INOUE
 Filed : 9 July 2003
 Group Art Unit : 2182
 Examiner :

U.S. PATENT DOCUMENTS

<u>Examiner Initial</u>	<u>Patent Number</u>	<u>Patent Date</u>	<u>Name</u>	<u>Class/ Subclass</u>	<u>Filing Date</u>
	4,430,701	02-1984	CHRISTIAN et al.	711/119	
	4,755,928	07-1988	JOHNSON et al.	364/200	
	5,134,563	07-1992	TAYLER et al.	711/143	
	5,274,790	12-1993	SUZUKI	711/133	
	5,325,488	06/28/94	D. CARTEAU	395/275	
	5,530,941	06-1996	WEISSER et al.	711/151	
	5,689,729	11-1997	INOUE	395/872	

FOREIGN PATENT DOCUMENTS

<u>Examiner Initial</u>	<u>Document Number</u>	<u>Date</u>	<u>Country</u>	<u>Class/ Subclass</u>	<u>Translation Yes</u>	<u>No</u>
	63-225848	09/20/88	Japan		ABS.	
	445,479	07/26/95	EPO			X

OTHER DOCUMENTS

(Including Author, Title, Date, Pertinent Pages, Etc.)

Examiner Initial

1. Japanese Office Action of April 1, 2003 and partial translation.

EXAMINER

DATE CONSIDERED

EXAMINER: Initial if citation considered, whether or not citation is in conformance with MPEP 609; draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

The stamp of the Patent Office hereon may be taken as acknowledging receipt,
on the date stamped, of



INVENTOR(S): Yasuo Inoue

SERIAL NO.: 10/614,863

FILED: July 9, 2003

TITLE: EXTERNAL STORAGE SUBSYSTEM

GROUP: 2182

EXAMINER: Alan S. Chen

PAPERS FILED:

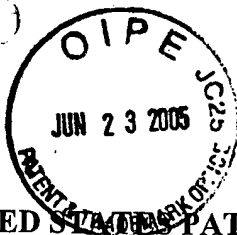
1. Information Disclosure Statement (3 pgs.)
2. PTO 1449 Form (1 pg., 1 US ref.)

DJZ/ske

29284-5984

April 6, 2005





PATENT
Serial No. 10/614,863
Docket No. 29284-594

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Applicant : Yasuo Inoue Customer No.: 23838
Serial No. : 10/614,863
Filed : July 9, 2003
For : EXTERNAL STORAGE SUBSYSTEM
Group : 2182
Examiner : Alan S. Chen

INFORMATION DISCLOSURE STATEMENT

MAIL STOP - AMENDMENT

Commissioner for Patents
P.O. Box 1450
Alexandria, VA 22313-1450

Sir:

Pursuant to 37 CFR § 1.56, the attention of the Patent and Trademark Office is hereby directed to the reference(s) listed on the attached PTO-1449. Unless otherwise indicated herein, one copy of each reference is attached. It is respectfully requested that the information be expressly considered during the prosecution of this application, and that the reference(s) be made of record therein and appear among the "References Cited" on any patent to issue therefrom. The filing of this Information Disclosure Statement and the enclosed PTO Form No. 1449, shall not be construed as an admission that the information cited is prior art, or is considered to be material to patentability as defined in 37 C.F.R. § 1.56(b). The paragraphs marked below are applicable. It is believed that no fees other than those indicated below are due, but authorization is hereby given to charge any additional fees due, or to credit any overpayment, to deposit account 11-0600.

☐ 1. This Information Disclosure Statement is being filed (a) within three months of the filing date of a national application other than a continued prosecution application under 37 C.F.R. §1.53(d), (b) within three months of the date of entry of the national stage as set forth in 37 C.F.R. § 1.491 in an international application, (c) before the mailing date of a first Office Action on the merits in the present application, OR (d) before the mailing of a first office action after filing of a request for continued examination. No certification or fee is required.

☐ 2. This Information Disclosure Statement is being filed more than three months after the U.S. filing date AND after the mailing date of the first Office Action on the merits, but

before the mailing date of a final action, Notice of Allowance, or any action that otherwise closes prosecution.

☐ a. I hereby certify that each item of information contained in this Information Disclosure Statement was first cited in any communication from a foreign patent office in a counterpart foreign application not more than three months prior to the filing of this Information Disclosure Statement. 37 CFR §1.97(e)(1).

☐ b. I hereby certify that no item of information in this Information Disclosure Statement was cited in a communication from a foreign patent office in a counterpart foreign application, and, to my knowledge after making reasonable inquiry, was known to any individual designated in 37 CFR §1.56(c) more than three months prior to the filing of this Information Disclosure Statement. 37 CFR §1.97(e)(2).

☐ c. Please debit Deposit Account No. 11-0600 in the amount of \$180.00 in payment of the fee under 37 CFR §1.17(p) to ensure consideration of the disclosed information. Two duplicate copies of this paper are attached. 37 CFR §1.97(c)(2).

☒ 3. This Information Disclosure Statement is being filed after the mailing date of a final action, Notice of Allowance or an action that otherwise closes prosecution, but before payment of the Issue Fee. Applicant(s) hereby request(s) that the Information Disclosure Statement be considered. Please debit Deposit Account No. 11-0600 in the amount of \$180.00 in payment of the petition fee under 37 CFR §1.17(p) to ensure consideration of the disclosed information. Two duplicate copies of this paper are attached.

☐ a. I hereby certify that each item of information contained in this Information Disclosure Statement was first cited in any communication from a foreign patent office in a counterpart foreign application not more than three months prior to the filing of this Information Disclosure Statement. 37 CFR §1.97(e)(1).

☒ b. I hereby certify that no item of information in this Information Disclosure Statement was cited in a communication from a foreign patent office in a counterpart foreign application, and, to my knowledge after making reasonable inquiry, was known to any individual designated in 37 CFR §1.56(c) more than three months prior to the filing of this Information Disclosure Statement. 37 CFR §1.97(e)(2).

OPTIONAL INSERT PARAGRAPHS FOR INFORMATION DISCLOSURE STATEMENT
(Please delete non-applicable paragraphs).

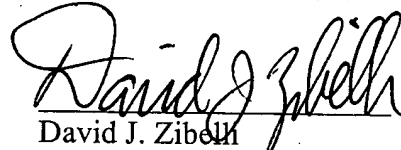
☐ 4. Relevance of the non-English language reference(s) is discussed in the present specification.

☐ 5. The reference(s) was/were cited in a counterpart foreign application. An English language version of the foreign search report is attached for the Examiner's information.

- ☐ 6. A concise explanation of the relevance of the non-English language reference(s) appears in the Appendix attached hereto.
- ☐ 7. The Examiner's attention is directed to co-pending U.S. Patent Application No. _____, filed, which is directed to related technical subject matter. The identification of this U.S. Patent Application is not to be construed as a waiver of secrecy as to that application now or upon issuance of the present application as a patent. The Examiner is respectfully requested to consider the cited application and the art cited therein during examination of the present application.
- ☐ 8. This application is one of a series of related applications, identified in the attached Appendix, which are directed to related technical subject matter. The identification of those U.S. Patent Applications is not to be construed as a waiver of secrecy as to those applications now or upon issuance of the present application as a patent. The Examiner is respectfully requested to consider the cited applications and the art cited therein during the examination.
- ☐ 9. The reference(s) was/were cited by or submitted to the Office in parent application No. _____, filed _____, which is relied upon for an earlier filing date under 35 U.S.C. §120. Thus, copies of these references are not attached. 37 CFR §1.98(d).
- ☐ 10. English-language Abstracts of the non-English language references are attached hereto. A Japanese Office Action issued on January 4, 2005, in Japanese, is also attached.
- ☒ 11. Since this application was filed after June 30, 2003, copies of U.S. references are not included.
- ☐ 12. Other.

Respectfully submitted,

KENYON & KENYON



David J. Zibell

Registration No. 36,394

Date: April 6, 2005

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1500 K Street, N.W.
Washington, D.C. 20005
Telephone: (202) 220-4200
Facsimile: (202) 220-4201
560024

Sheet 1 of 2

FORM PTO-1449
 INFORMATION DISCLOSURE
 STATEMENT BY APPLICANT(S)

Atty Docket No.: 29284/ 598
 Serial No. :
 Applicants : Y. INOUE
 Filed :
 Group Art Unit :
 Examiner :

U.S. PATENT DOCUMENTS

Examiner Initial	Patent Number	Patent Date	Name	Class/ Subclass	Filing Date
ASC	4,021,784	05/1977	KIMLINGER	395/550	
ASC	4,394,732	7/1983	SWENSON	395/440	
ASC	4,467,414	08/21/84	AKAGI et al.	395/250	
ASC	4,723,223	02/02/88	HANADA	395/846	
ASC	4,792,898	12/20/88	MCCARTHY et al.	395/445	
ASC	4,920,478	04/24/90	FARUYA et al.	395/463	
ASC	4,996,641	02/26/91	TALGAM et al.	395/445	
ASC	5,019,971	05/28/91	LEFSKI et al.	395/250	
ASC	5,073,851	12/17/91	MASTERSON et al.	395/467	
ASC	5,123,099	02/16/92	SHIBATA et al.	395/447	
ASC	5,124,987	06/23/92	MILLIGAN et al.	395/182.05	
ASC	5,133,060	07/21/92	WEBER et al.	395/440	
ASC	5,142,627	8/1992	ELLIOT et al.	395/825	
ASC	5,150,465	09/22/92	BUSH et al.	395/834	
ASC	5,155,845	10/13/92	BEAL et al.	395/182.04	
ASC	5,175,842	12/29/92	TOTANI	395/488	
ASC	5,204,836	04/20/93	REED	371/10.2	
ASC	5,210,843	5/1993	AYERS	395/455	
ASC	5,228,135	07/13/93	IKUMI	395/458	
ASC	5,253,351	10/12/93	YAMAMOTO et al.	395/445	✓
ASC	5,257,359	10/26/93	BLASCO et al.	395/465	
ASC	5,269,019	12/1993	PETERSON et al.	395/600	
ASC	5,287,480	2/1994	WAHR	395/458	
ASC	5,325,488	06/28/94	CARTEAU et al.	395/275	
ASC	5,459,856	10/17/95	INOUE	395/440	
ASC	5,519,831	5/1996	HOLZHAMMER	395/182.2	

OTHER DOCUMENTS

(Including Author, Title, Date, Pertinent Pages, Etc.)

Examiner
Initial

1. A Multiport Page-Memory Architecture and a Multiport Disk-Cache System, New Generation Computing 2 (1984) 241-260, Ohmsha, Ltd. and Springer-Verlag.

EXAMINER

DATE CONSIDERED

U. Inoue 29/14/84

EXAMINER: Initial if citation considered, whether or not citation is in conformance with MPEP 609; draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

**FORM PTO-1449
INFORMATION DISCLOSURE
STATEMENT BY APPLICANT(S)**

Atty Docket No. : 29284/598
Serial No. :
Inventors : Yasuo INOUE
Filed : 9 July 2003
Group Art Unit : 2182
Examiner :

BEST AVAILABLE COPY

U.S. PATENT DOCUMENTS

Examiner Initial	Patent Number	Patent Date	Name	Class/ Subclass	Filing Date
ASL	4,430,701	02-1984	CHRISTIAN et al.	711/119	
ASL	4,755,928	07-1988	JOHNSON et al.	364/200	
ASL	5,134,563	07-1992	TAYLER et al.	711/143	
ASL	5,274,790	12-1993	SUZUKI	711/133	
ASL	5,325,488	06/28/94	D. CARTEAU	395/275	
ASL	5,530,941	06-1996	WEISSER et al.	711/151	
ASL	5,689,729	11-1997	INOUE	395/872	

FOREIGN PATENT DOCUMENTS

Examiner Initial	Document Number	Date	Country	Class/ Subclass	Translation Yes No
	63-225848	09/20/88	Japan		ABS.
	445,479	07/26/95	EPO		X

OTHER DOCUMENTS

(Including Author, Title, Date, Pertinent Pages, Etc.)

Examiner
Initial

1. Japanese Office Action of April 1, 2003 and partial translation.

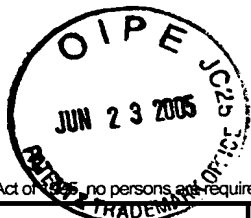
EXAMINER

DATE CONSIDERED

Alan Glue

07/17/01

EXAMINER: Initial if citation considered, whether or not citation is in conformance with MPEP 609; draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.



PTO/SB/08b(08-03)

Approved for use through 07/31/2006. OMB 0651-0031
U.S. Patent and Trademark Office; U.S. DEPARTMENT OF COMMERCE

Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it contains a valid OMB control number

Substitute for form 1449B/PTO

**INFORMATION DISCLOSURE
STATEMENT BY APPLICANT**

(Use as many sheets as necessary)

Sheet 1 of 1

Complete if Known

Application Number	10/614,863
Filing Date	July 9, 2003
First Named Inventor	Yasuo INOUE
Art Unit	2182
Examiner Name	Alan S. CHEN
Attorney Docket Number	29284/594

FOREIGN PATENT DOCUMENTS

Examiner Initials*	Cite No. ¹	Foreign Patent Document	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear	T ²
		Country Code ³ - Number ⁴ - Kind Code ⁵ (if known)				
		63-225848	09-20-1988	Carteau et al.		
		EP 0445,479	07-26-1995			

NON PATENT LITERATURE DOCUMENTS

Examiner Initials *	Cite No. ¹	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	T ²
		Partial Translation of Japanese Office Action No. 3-322965 dated April 1, 2003 and Japanese Office Action No. 3-322965 dated April 1, 2003	
		A Multiport Page-Memory Architecture and a Multiport Disk-Cache System, New Generation Computing 2 (1984) 241-260, Ohmsha, Ltd. and Springer-Verlag	

Examiner
SignatureDate
Considered

*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

¹ Applicant's unique citation designation number (optional). ² Applicant is to place a check mark here if English language Translation is attached. This collection of information is required by 37 CFR 1.98. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 120 minutes to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

If you need assistance in completing the form, call 1-800-PTO-9199 and select option 2.



PATENT APPLICATION

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re the Application of: Yasuo INOUE
Group Art Unit: 2182
Application No.: 10/614,863
Examiner: Alan CHEN
Filed: July 9, 2003
Docket No.: 29284/594
For: EXTERNAL STORAGE SUBSYSTEM

INFORMATION DISCLOSURE STATEMENT

Commissioner for Patents
P.O. Box 1450
Alexandria, VA 22313-1450

Sir:

Pursuant to 37 CFR § 1.56, the attention of the Patent and Trademark Office is hereby directed to the reference(s) listed on the attached PTO-1449. Unless otherwise indicated herein, one copy of each reference is attached. It is respectfully requested that the information be expressly considered during the prosecution of this application, and that the reference(s) be made of record therein and appear among the "References Cited" on any patent to issue therefrom. The filing of this Information Disclosure Statement and the enclosed PTO Form No. 1449, shall not be construed as an admission that the information cited is prior art, or is considered to be material to patentability as defined in 37 C.F.R. § 1.56(b). The paragraphs marked below are applicable. It is believed that no fees other than those indicated below are due, but authorization is hereby given to charge any additional fees due, or to credit any overpayment, to deposit account 11-0600.

☐ 1. This Information Disclosure Statement is being filed (a) within three months of the filing date of a national application other than a continued prosecution application under 37 C.F.R. §1.53(d), (b) within three months of the date of entry of the national stage as set forth in 37 C.F.R. § 1.491 in an international application, (c) before the mailing date of a first Office Action on the merits in the present application, OR (d) before the mailing of a first office action after filing of a request for continued examination. No certification or fee is required.

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☐ a. I hereby certify that each item of information contained in this Information Disclosure Statement was first cited in any communication from a foreign patent office in a counterpart foreign application not more than three months prior to the filing of this Information Disclosure Statement. 37 CFR §1.97(e)(1).

☐ b. I hereby certify that no item of information in this Information Disclosure Statement was cited in a communication from a foreign patent office in a counterpart foreign application, and, to my knowledge after making reasonable inquiry, was known to any individual designated in 37 CFR §1.56(c) more than three months prior to the filing of this Information Disclosure Statement. 37 CFR §1.97(e)(2).

☐ c. Please debit Deposit Account No. 11-0600 in the amount of \$180.00 in payment of the fee under 37 CFR §1.17(p) to ensure consideration of the disclosed information. Two duplicate copies of this paper are attached. 37 CFR §1.97(c)(2).

☒ 3. This Information Disclosure Statement is being filed after the mailing date of a final action, Notice of Allowance or an action that otherwise closes prosecution, but before payment of the Issue Fee. Applicant(s) hereby request(s) that the Information Disclosure Statement be considered. Please debit Deposit Account No. 11-0600 in the amount of \$180.00 in payment of the petition fee under 37 CFR §1.17(p) to ensure consideration of the disclosed information. Two duplicate copies of this paper are attached.


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☒ 4. The references were cited in a counterpart foreign application. An English language version of the Official Action is attached for the Examiner's information.

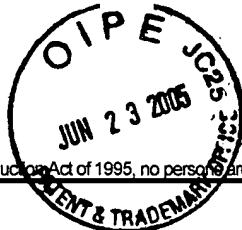
Respectfully submitted,

KENYON & KENYON


David J. Zibelli
Registration No. 36,394

Date: June 23, 2005

Kenyon & Kenyon
1500 K Street, N.W.
Washington, D.C. 20005
Telephone: (202) 220-4200
Facsimile: (202) 220-4201



Substitute for form 1449A/PTO

**INFORMATION DISCLOSURE
STATEMENT BY APPLICANT**

(Use as many sheets as necessary)

Sheet

of

Complete if Known

Application Number	10/614,863
Filing Date	July 9, 2003
First Named Inventor	Yasuo INOUE
Art Unit	2182
Examiner Name	Alan CHEN
Attorney Docket Number	29284/594

U.S. PATENT DOCUMENTS

Examiner Initials *	Cite No. ¹	Document Number	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
		Number - Kind Code ² (if known)			
		US-			
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		English Translation of Japanese Office Action No. 2003-156485, dated March 25, 2005 and Office Action of Japanese Patent Application No. 2003-156485	
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		English Translation of Japanese Office Action No. 2003-189152, dated March 25, 2005 and Office Action of Japanese Patent Application No. 2003-189152	

FOREIGN PATENT DOCUMENTS

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		JP-4219815	08-10-1992	Bull Sa		Abstract

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